

Notice of Allowability

Application No.

10/026,272

Applicant(s)

SOMASUNDARAM ET AL.

Examiner

Lan-Dai Thi Truong

Art Unit

2152

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/06/2007.
2. ☒ The allowed claim(s) is/are 1-4,6-15,17-26 and 28-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other

BUNJOB JAROENCHONWANIT
SUPERVISORY PATENT EXAMINER

9/17/17

DETAILED ACTION

1. This action is response to communications: application, filed 12/21/2001; amendments filed 07/06/2007. Claims 1-4, 6-15, 17-26, 28-39 are pending; claims 1, 11-12, 14, 22-23, 25, 33-34, 36 are amended; claims 5, 16, 27 are canceled

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

3. Authorization for those examiner's amendments were given in a telephone interview with Attorney Mary R. Olymick, Reg. no. 42, 963 on September 10, 2007 at 5:30 PM.

4. The claim 25 have been amended as follows:

25. A computer program product for performing network address translation on data, the computer program product comprising: at least one ~~computer~~ machine-readable medium; computer program instructions stored within the at least one ~~computer~~ machine-readable medium ~~product~~ configured to cause a network address translation system to:

receive a first data having a first source address and first destination address, wherein the first data is sent by a first node in a first domain to a second node in a second domain, and wherein the first data is received into a first interface associated with the first domain and output from a second interface associated with the second domain, and wherein the first domain differs from the second domain, and wherein the first and second interfaces are virtual interfaces that are each configurably associated with one or more domains;

obtain routing information for the first data;

if the first source address is a private address and if a binding between the first source address, the first interface, and a first public address is found, translate the first source address into the first public address specified by the found binding prior to sending the first data to the second domain destination;

if the first source address is a private address and if a binding between the first source address, the first interface, and a first public address is not found, translate the first source address into a selected public address and form and store a first binding between the first source address, the selected public address, and the first interface, wherein the translation is performed prior to sending the first data to the second domain destination;

if a destination binding between the first destination address, a first private address, and the second interface is found, translate the first destination address into the first private address specified by the destination binding, wherein the translation of the first destination address is performed prior to sending the first data out the second interface to the second node; and

send the first data to the second node based on the routing information

Reasons for allowance

With respect to claims 1, 14, 25 and 36, the prior arts of record, singly or in combination fails to teach the features of claim(s) limitations thereof. Specially, inter alia, it fails to teach a method for performing network address translation on data, the method comprising receiving a first data having a first source address and first destination address, wherein the first data is sent by a first node in a first domain to a second node in a second domain, and wherein the first data is received into a first interface associated with the first domain and output from a second interface associated with the second domain, and wherein the first domain differs from the second domain, and wherein the first and second interfaces are virtual interfaces that are each configurably associated with one or more domains; obtaining routing information for the first data; if the first source address is a private address and if a binding between the first source address, the first interface, and a first public address is found, translating the first source address into the first public address specified by the found binding prior to sending the first data to the second domain destination; if the first source address is a private address and if a binding between the first source address, the first interface, and a first public address is not found, translating the first source address into a selected public address and forming and storing a first binding between the first source address, the selected public address, and the first interface, wherein the translation is performed prior to sending the first data to the second domain destination; if a destination binding between the first destination address, a first private address, and the second interface is found, translating the first destination address into the first private address specified by the destination binding, wherein the translation of the first destination

address is performed prior to sending the first data out the second interface to the second node; and sending the first data to the second node based on the routing information

Claims 2-4, 6-13,15,17-24, 26, 28-35, 37-39 further limit the allowed claims, therefore they are also allowed

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

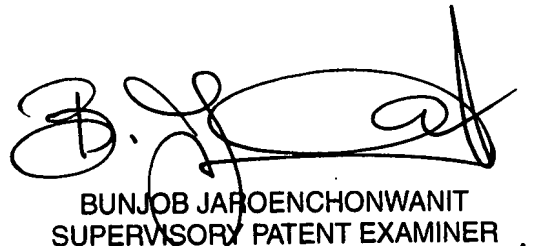
Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lan-Dai Thi Truong whose telephone number is 571-272-7959. The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob A. Jaroenchonwanit can be reached on 571-272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

09/10/2007



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9/17/7